Access DB# 91705

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Ifeta Reyes Examiner #: 78264 Date: 4/16/03
Art Unit: 1625 Phone Number 30 605 1153 Serial Number: 09 986 629
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL
3D01 — 4A 16

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

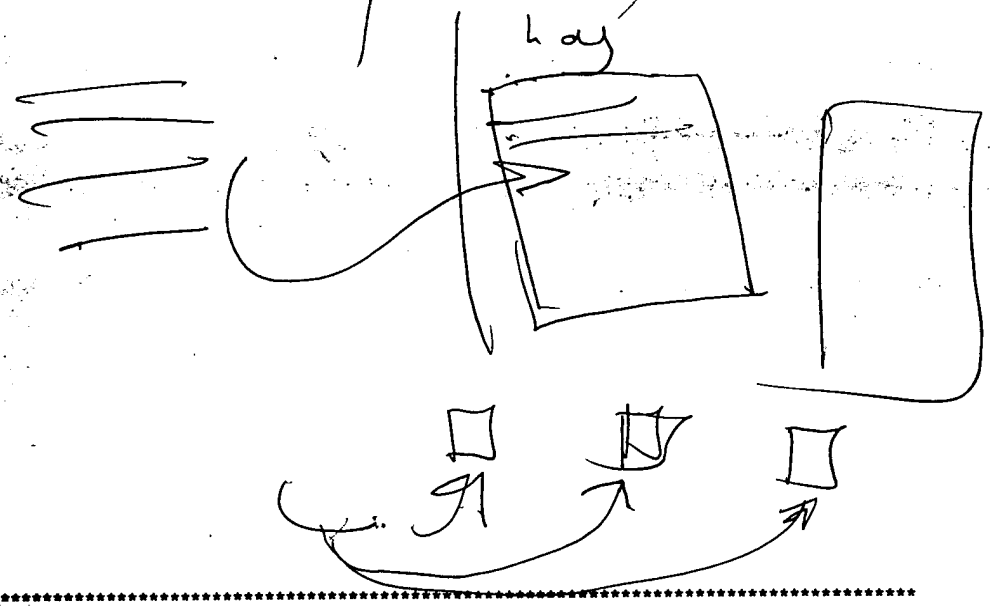
Title of Invention: See Box Copy

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Process for Preparation



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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
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Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up:	Bibliographic	Dr.Link
Date Completed: 4/17/03	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
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Online Time:	Other	Other (specify)

PTO-1590 (8-01)

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FILE 'HCAPLUS' ENTERED AT 16:52:42 ON 17 APR 2003
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FILE COVERS 1907 - 17 Apr 2003  VOL 138 ISS 16
FILE LAST UPDATED: 16 Apr 2003  (20030416/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

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L1                STR
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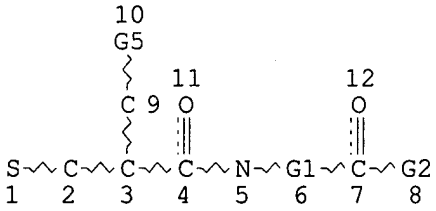

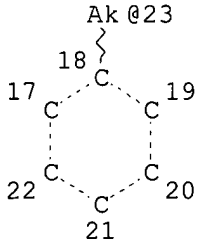

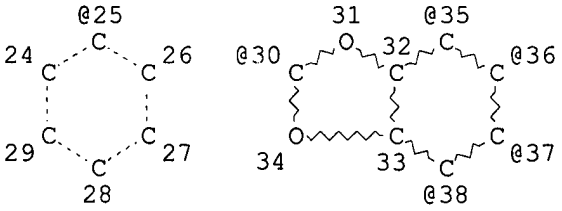


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  38
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STEREO ATTRIBUTES: NONE
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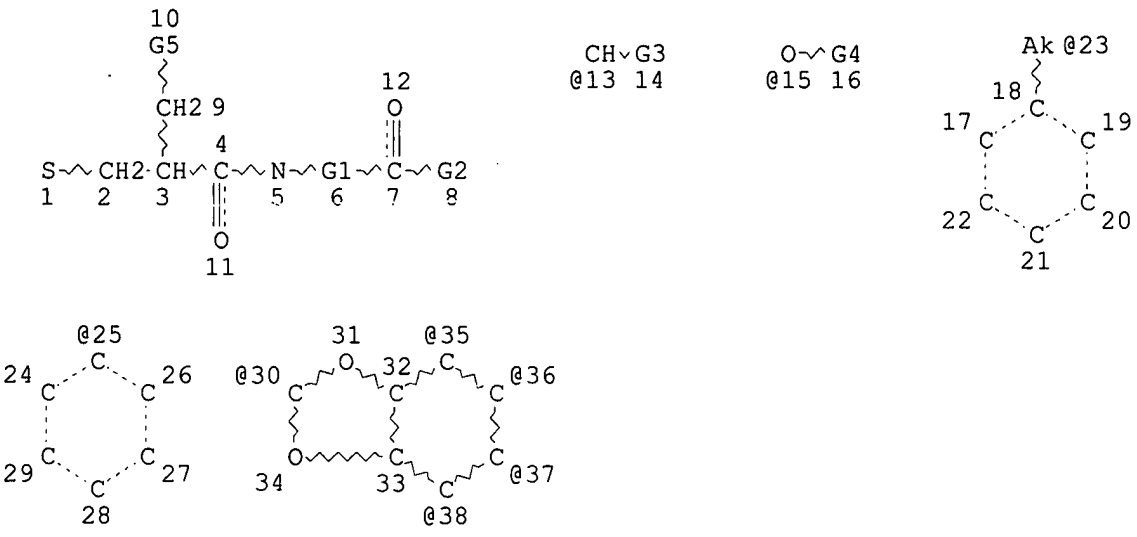

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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 38

STEREO ATTRIBUTES: NONE
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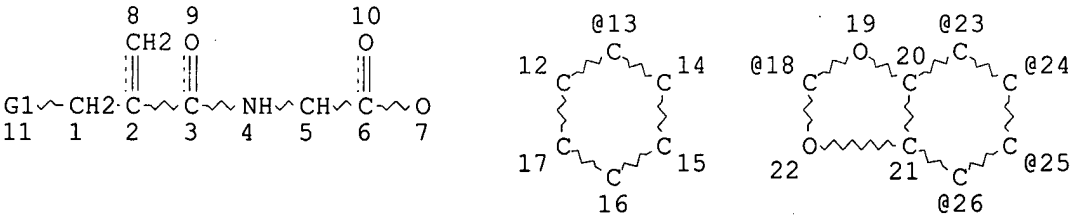
L6 382 SEA FILE=HCAPLUS ABB=ON PLU=ON L5
L18 STR



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NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE
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L24           8 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND L22
L25           4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND L23
L26          11 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 OR L25


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L26  ANSWER 1 OF 11  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2002:354100  HCAPLUS
DOCUMENT NUMBER:          136:355480
TITLE:                    Process for the synthesis of N-(mercaptoacyl) amino
                          acid derivatives from .alpha.-substituted acrylic
                          acids
INVENTOR(S):              Monteil, Thierry; Danvy, Denis; Plaquevent,
                          Jean-christophe; Duhamel, Pierre; Duhamel, Lucette;
                          Lecomte, Jeanne-marie; Schwartz, Jean-charles;
                          Piettre, Serge
PATENT ASSIGNEE(S):       Fr.
SOURCE:                   U.S. Pat. Appl. Publ., 9 pp.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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     US 2002055645     A1    20020509      US 2001-986629   20011109
     FR 2816309        A1    20020510      FR 2000-14419    20001109
     FR 2816309        B1    20021227
     EP 1205476        A1    20020515      EP 2001-402833   20011031
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2002234869     A2    20020823      JP 2001-341890   20011107
PRIORITY APPLN. INFO.:                    FR 2000-14419    A  20001109
OTHER SOURCE(S):          CASREACT 136:355480; MARPAT 136:355480
AB   Amino acid derivs. R4SCH2CH(CH2R1)CONHCHR2CO2R3 [I; R1 = Ph or
     3,4-methylenedioxyphenyl; R2 = H or alkyl; R3 = H, alkyl, or phenylalkyl;
     R4 = aliph. or arom. acyl] were prepd. via Michael addn. of a thioacid
     R4SH to an .alpha.-substituted acrylamide deriv.  The invention
     also relates to the enantioselective synthesis of compds. I where R2 is
     other than H, in the preferential (S,S) configuration:.  Thus, benzyl
     N-(S)-[2-[(acetylthio)methyl]-1-oxo-3-(3,4-methylenedioxyphenyl)propyl]-
     (S)-alaninate (fasidotril) was prepd. in 30% overall yield by conversion
     of piperonylacrylic acid to the acid chloride, coupling with benzyl
     (methylsulfonyl)-L-alaninate, and Michael addn. reaction with thioacetic
     acid.
IT   81110-73-8P, Racecadotril 135038-57-2P, Fasidotril
     RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
     (Preparation)
        (synthesis of N-(mercaptoacyl) amino acid derivs. from
        .alpha.-substituted acrylic acids)
IT   87428-99-7P 135798-66-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (synthesis of N-(mercaptoacyl) amino acid derivs. from
        .alpha.-substituted acrylic acids)
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L26 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:137173 HCAPLUS
DOCUMENT NUMBER: 134:178396
TITLE: Synthesis, activity and formulations of pharmaceutical compounds for treatment of oxidative stress and/or endothelial dysfunction
INVENTOR(S): Del Soldato, Piero
PATENT ASSIGNEE(S): Nicox S.A., Fr.
SOURCE: PCT Int. Appl., 94 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012584	A2	20010222	WO 2000-EP7225	20000727
WO 2001012584	A3	20020829		
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000013264	A	20020416	BR 2000-13264	20000727
EP 1252133	A2	20021030	EP 2000-953102	20000727
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
NO 2002000623	A	20020409	NO 2002-623	20020208

PRIORITY APPLN. INFO.: IT 1999-MI1817 A 19990812
WO 2000-EP7225 W 20000727

OTHER SOURCE(S): MARPAT 134:178396

AB Compds. or their salts of general formula (I): A-B-N(O)s wherein: s is an integer equal to 1 or 2; A = R-T1-, wherein R is the drug radical and T1 = (CO)t or (X)t', wherein X = O, S, NR1c, R1c is H or a linear or branched alkyl or a free valence, t and t' are integers and equal to zero or 1, with the proviso that t = 1 when t' = 0; t = 0 when t' = 1; B = -TB -X2-O- wherein TB = (CO) when t = 0, TB = X when t' = 0, X being as above defined; X2, bivalent radical, is such that the precursor drug of A and the precursor of B meet resp. the pharmacol. tests described in the description. Synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction are disclosed. The precursors are such as to meet the pharmacol. test reported in the description.

IT **76721-89-6**, Thiorphan
RL: RCT (Reactant); RACT (Reactant or reagent)
(analgesic; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT **115-68-4**, Sulfadicramide
RL: RCT (Reactant); RACT (Reactant or reagent)
(antibiotic; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT **81110-73-8**, Acetorphan
RL: RCT (Reactant); RACT (Reactant or reagent)
(antithrombotic; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT **4803-27-4**, Anthramycin
RL: RCT (Reactant); RACT (Reactant or reagent)

(antitumor; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

L26 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:742057 HCAPLUS
DOCUMENT NUMBER: 133:309791
TITLE: Synthesis, activity and formulations of pharmaceutical compounds for treatment of oxidative stress and/or endothelial dysfunction
INVENTOR(S): Del Soldato, Piero
PATENT ASSIGNEE(S): Nicox S.A., Fr.
SOURCE: PCT Int. Appl., 140 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061541	A2	20001019	WO 2000-EP3239	20000411
WO 2000061541	A3	20010927		
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, DM, EE, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IT 1311923	B1	20020320	IT 1999-MI752	19990413
BR 2000009703	A	20020108	BR 2000-9703	20000411
EP 1169298	A2	20020109	EP 2000-926870	20000411
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002541236	T2	20021203	JP 2000-610818	20000411
NO 2001004928	A	20011213	NO 2001-4928	20011010

PRIORITY APPLN. INFO.: IT 1999-MI752 A 19990413
WO 2000-EP3239 W 20000411

OTHER SOURCE(S): MARPAT 133:309791

AB Synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction are disclosed. The precursors are such as to meet the pharmacol. test reported in the description.

IT **76721-89-6**, Thiorphan
RL: RCT (Reactant); RACT (Reactant or reagent)
(analgesic; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT **115-68-4**, Sulfadicramide
RL: RCT (Reactant); RACT (Reactant or reagent)
(antibiotic; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT **81110-73-8**, Acetorphan
RL: RCT (Reactant); RACT (Reactant or reagent)
(antithrombotic; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT **4803-27-4**, Anthramycin
RL: RCT (Reactant); RACT (Reactant or reagent)
(antitumor; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial

dysfunction)

L26 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:742053 HCAPLUS
DOCUMENT NUMBER: 133:310142
TITLE: Synthesis, activity and formulations of pharmaceutical compounds for treatment of oxidative stress and/or endothelial dysfunction
INVENTOR(S): Del Soldato, Piero
PATENT ASSIGNEE(S): Nicox S.A., Fr.
SOURCE: PCT Int. Appl., 159 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061537	A2	20001019	WO 2000-EP3234	20000411
WO 2000061537	A3	20010927		

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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

IT 1311924	B1	20020320	IT 1999-MI753	19990413
BR 2000009702	A	20020108	BR 2000-9702	20000411
EP 1169294	A2	20020109	EP 2000-925203	20000411

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

JP 2002541233	T2	20021203	JP 2000-610814	20000411
NO 2001004927	A	20011213	NO 2001-4927	20011010

PRIORITY APPLN. INFO.: IT 1999-MI753 A 19990413
WO 2000-EP3234 W 20000411
OTHER SOURCE(S): MARPAT 133:310142
AB Compds. A-B-C-N(O)s and A-C1[N(O)s]-B1 or their salts [s is an integer 1 or 2, preferably s = 2; A is the radical of a drug and is such as to meet the pharmacol. tests reported in the description; C and C1 are two bivalent radicals; the precursors of the radicals B and B1 are such as to meet the pharmacol. test reported in the description] were prepd. for use as pharmaceuticals. Thus, (S,S)-N-acetyl-S-(6-methoxy-.alpha.-methyl-2-naphthalenylacetyl)cysteine 4-nitroxybutyl ester was prepd. (NCX 2101) from naproxene and N-acetylcysteine in the first of 28 synthetic examples given. Pharmacol. test examples and tabular data are also given.
IT **115-68-4**, Sulfadicramide **4803-27-4**, Anthramycin
81110-73-8, Acetorphan
RL: RCT (Reactant); RACT (Reactant or reagent)
(drug precursor)

L26 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:563102 HCAPLUS
DOCUMENT NUMBER: 127:220985
TITLE: Beta-thiopropionyl-amino acid derivatives and their use as beta-lactamase inhibitors
INVENTOR(S): Bateson, John Hargreaves; Witty, David R.; Gasson, Brian Charles; Best, Desmond John; Payne, David John
PATENT ASSIGNEE(S): Smithkline Beecham PLC, UK; Bateson, John Hargreaves; Witty, David R.; Gasson, Brian Charles; Best, Desmond John; Payne, David John
SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9730027	A1	19970821	WO 1997-EP516	19970203
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2245830	AA	19970821	CA 1997-2245830	19970203
AU 9717669	A1	19970902	AU 1997-17669	19970203
EP 900197	A1	19990310	EP 1997-903220	19970203
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 2000506120	T2	20000523	JP 1997-528946	19970203
US 6048852	A	20000411	US 1999-125245	19990113

PRIORITY APPLN. INFO.: GB 1996-2860 A 19960213
GB 1996-10907 A 19960524
GB 1996-19147 A 19960913
WO 1997-EP516 W 19970203

OTHER SOURCE(S): MARPAT 127:220985

AB Amino acid derivs. R4SCR5R6CHR3CONR2CHR1CO2R [R = H, a salt forming cation or an in vivo hydrolyzable ester-forming group; R1 = H, alkyl optionally substituted by up to three halogen atoms or by a mercapto, alkoxy, hydroxy, amino, nitro, carboxy, alkylcarbonyloxy, alkoxycarbonyl, formyl or alkylcarbonyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, aryl, arylalkyl, heterocyclyl, or heterocyclylalkyl; R2 = H, alkyl, or arylalkyl; R3 = H, alkyl optionally substituted by up to three halogen atoms, cycloalkyl, fused arylcycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, aryl, arylalkyl, heterocyclyl, or heterocyclylalkyl; R4 = H or an in vivo hydrolyzable acyl group; R5, R6 = H, alkyl or R5R6 = di- to pentamethylene] were prepd. as beta-lactamase inhibitors. Pharmaceutical compns. which comprise the title compds. together with a .beta.-lactam antibiotic in a synergistically effective amt. are claimed. Thus, N-[2'-benzyl-3'-mercaptopropionyl]-D-phenylglycine was prepd. and assayed for antibacterial activity (min. inhibitory concn. = >128 .mu.g/mL). The min. inhibitory concn. of meropenem was 32 .mu.g/mL in the presence of 8 .mu.g/mL the above synthetic compd.

IT **76721-89-6P**, Thiorphan **81110-05-6P 195070-32-7P 195070-33-8P 195071-24-0P 195071-25-1P 195071-54-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(beta-thiopropionyl amino acid derivs. and their use as beta-lactamase inhibitors)

IT **95908-99-9P 95909-00-5P 195069-63-7P 195069-64-8P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(beta-thiopropionyl amino acid derivs. and their use as beta-lactamase inhibitors)

L26 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:536779 HCAPLUS
DOCUMENT NUMBER: 115:136779
TITLE: Preparation of racemic and optically active acylamino

acids as inhibitors of enkephalinase and angiotensin converting enzyme

INVENTOR(S): Plaquevent, Jean Christophe; Danvy, Denis; Monteil, Thierry; Greciet, Helene; Duhamel, Lucette; Duhamel, Pierre; Gros, Claude; Schwartz, Jean Charles; Lecomte, Jeanne Marie

PATENT ASSIGNEE(S): Societe Civile Bioprojet, Fr.

SOURCE: Eur. Pat. Appl., 76 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 419327	A1	19910327	EP 1990-402530	19900914
EP 419327	B1	19940727		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FR 2652087	A1	19910322	FR 1989-12142	19890915
FR 2652087	B1	19931015		
CA 2039706	AA	19910316	CA 1990-2039706	19900914
WO 9104246	A1	19910404	WO 1990-FR659	19900914
W: CA, JP, KR, US				
JP 04501868	T2	19920402	JP 1990-513289	19900914
JP 3249510	B2	20020121		
ES 2057477	T3	19941016	ES 1990-402530	19900914
US 5599951	A	19970204	US 1995-422652	19950414
US 5670531	A	19970923	US 1995-462590	19950605
US 5846956	A	19981208	US 1997-889094	19970707

PRIORITY APPLN. INFO.:

FR 1989-12142	A	19890915
WO 1990-FR659	W	19900914
US 1991-689238	B1	19910613
US 1993-103156	B1	19930809
US 1995-422652	A3	19950414
US 1995-462590	A3	19950605

OTHER SOURCE(S): MARPAT 115:136779

AB R1CH2CHXCONHCHR2CO2H and R1CH:CXCONHCHR2CO2H [I, II; R1 = benzoheterocyclyl, e.g., 3,4-(methylenedioxy)phenyl (Q); R2 = alkyl, hydroxyalkyl, Ph, phenylalkyl, etc.; X = CH2SH, NHCHR3CO2H, etc.; R3 = alkyl, alkoxy, benzyl (HO)2P(O)(CH2)m, NHP(O)(OH)2; m = 0, 1], were prepd. QCH2C(:CH2)CO2H (prepn. given) was heated with HSAc 24 h at 70.degree. to give 100% QCH2CH(CH2SAc)CO2H, which was condensed with benzyl glycinate in THF contg. 1-hydroxy-1H-benzotriazole to give 88% QCH2CH(CH2SAc)CONHCO2CH2Ph, whose hydrolysis gave 72% I [R1 = Q, X = CH2SH, R2 = H], which had an IC50 of 8 nM against enkephalinase according to the procedure of Giros et al (1987).

IT **135038-58-3P 135038-59-4P 135793-24-7P**
135793-25-8P 135793-26-9P 135793-27-0P
135793-28-1P 135793-29-2P 135793-37-2P
135793-38-3P 135793-39-4P 135793-40-7P
135793-41-8P 135793-42-9P 135793-43-0P
135793-44-1P 135793-45-2P 135793-46-3P
135793-47-4P 135793-48-5P 135793-49-6P
135793-50-9P 135793-51-0P 135793-52-1P
135793-53-2P 135793-54-3P 135793-71-4P
135794-10-4P 135794-11-5P 135794-12-6P
135794-13-7P 135794-14-8P 135794-15-9P
135910-50-8P 135910-51-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as inhibitor of enkephalinase and angiotensin converting enzyme)

IT **135798-83-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for enkephalinase and angiotensin converting enzyme inhibitor)

IT **135038-56-1P 135038-57-2P 135793-72-5P**
135793-73-6P 135793-74-7P 135793-76-9P
135793-77-0P 135793-79-2P 135793-82-7P
135793-83-8P 135793-85-0P 135794-17-1P
135794-18-2P 135794-19-3P 135794-20-6P
135794-21-7P 135794-22-8P 135794-23-9P
135794-34-2P 135794-35-3P 135794-36-4P
135794-37-5P 135794-38-6P 135794-40-0P
135794-41-1P 135794-42-2P 135794-44-4P
135794-45-5P 135798-66-2P 135798-68-4P
135798-71-9P 135798-73-1P 135824-77-0P
135824-78-1P 135824-79-2P 135824-80-5P
135824-81-6P 135910-53-1P 135910-56-4P
135910-60-0P 135911-61-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for inhibitors of enkephalinase and angiotensin converting enzyme)

L26 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:56688 HCAPLUS
DOCUMENT NUMBER: 112:56688
TITLE: Amino acid and peptide derivatives as inhibitors of neutral endopeptidase and their use as antihypertensives and diuretics
INVENTOR(S): Delaney, Norma G.; Gordon, Eric M.; DeForrest, Jack M.; Cushman, David W.
PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc., USA
SOURCE: Ger. Offen., 53 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3819539	A1	19881222	DE 1988-3819539	19880608
CA 1337400	A1	19951024	CA 1988-566338	19880509
GB 2207351	A1	19890201	GB 1988-13372	19880606
GB 2207351	B2	19910918		
FR 2616070	A1	19881209	FR 1988-7626	19880608

PRIORITY APPLN. INFO.: US 1987-59072 19870608
OTHER SOURCE(S): MARPAT 112:56688

AB Administration of .gtoreq.1 inhibitor of neutral endopeptidase, optionally together with an antihypertensive agent such as an angiotensin-converting enzyme inhibitor, produces diuresis, natriuresis, and lowering of the blood pressure. The endopeptidase inhibitor is an amino acid or peptide deriv. or related compd. with a structure represented by any of 10 Markush line formulas, e.g. R4S(CH2)2CHR2CONHCHR1(CH2)nCO2R3 [R1, R2 = H, (substituted) alkyl, cycloalkyl, (substituted) aryl or aralkyl; R3 = H, lower alkyl, PhCH2, Ph2CH, ion; R4 = H, acyl; m = 0, 1; n = 0-15]. N-[2-(Mercaptomethyl)-1-oxo-3-phenylpropyl]-L-leucine (I) was prepd. by reaction of 3-acetylthio-2-benzylpropionic acid with oxalyl chloride, then with L-leucine Me ester.HCl, and sapon; I inhibited rat kidney neutral endopeptidase in vitro by 50% at 0.0066 .mu.M, decreased the mean arterial pressure in DOCA-hypertensive rats by 65 mm Hg at 300 .mu.mol/kg i.v., and increased urinary Na+ excretion 2.4-fold in rats at 100 mg/kg i.v.

IT **124735-34-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

Synthesis

(prepn. and sapon. of, in antihypertensive neutral endopeptidase inhibitor prepn.)

IT **124818-07-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and sapon. of, in prepn. of antihypertensive neutral endopeptidase inhibitor)

IT **124735-06-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and suponification of, in antihypertensitve neutral endopeptidase inhibitor prepn.)

IT **76721-89-6P 81110-07-8P 88728-44-3P 88728-45-4P 124818-14-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as antihypertensive neutral endopeptidase inhibitor)

IT **76932-18-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, in antihypertensive neutral endopeptidase inhibitor prepn.)

IT **81110-06-7 124818-15-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(sapon. of, in antihypertensive neutral endopeptidase inhibitor prepn.)

L26 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1989:633664 HCAPLUS
DOCUMENT NUMBER: 111:233664
TITLE: Preparation and testing of N-acylamino acid amides as renin inhibitors
INVENTOR(S): Morishima, Hajime; Koike, Yutaka; Nakano, Masato; Atsuumi, Shugo; Tanaka, Seiichi; Matsuyama, Kenji
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 116 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 309766	A2	19890405	EP 1988-114374	19880902
EP 309766	A3	19900613		
EP 309766	B1	19980415		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 165085	E	19980515	AT 1988-114374	19880902
US 5122523	A	19920616	US 1988-240725	19880906
JP 02062856	A2	19900302	JP 1988-236728	19880921
JP 05087062	B4	19931215		
AU 8822992	A1	19890406	AU 1988-22992	19880929
AU 620820	B2	19920227		
CN 1032786	A	19890510	CN 1988-109019	19880929
US 5240924	A	19930831	US 1991-815412	19911231
US 5319082	A	19940607	US 1992-868140	19920414
US 5481036	A	19960102	US 1994-179195	19940110
US 5506356	A	19960409	US 1995-375738	19950120

PRIORITY APPLN. INFO.:
JP 1987-244934 19870929
EP 1988-114374 19880902
US 1988-240725 19880906
US 1992-868140 19920414
US 1994-179195 19940110

OTHER SOURCE(S): MARPAT 111:233664

AB R1S(O)m(CH2)nCHR2CONR3CHR4CONR5CHR6CH(OH)A [I; R1,R2,R4,R6 = H, (substituted) alkyl, cycloalkyl, cycloalkylalkyl, aryl, aralkyl, (bi)cyclic heterocyclic group contg. 1-4 heteroatoms chosen from N, S, and

O; R3,R5 = H, alkyl; A = CH(OH)(CH2)qR7; R7 = R1, amino, alkylsulfonyl, etc.; m = 0-2; n = 1-5; q = 0-5], useful as renin inhibitors, were prepd. I are orally active antihypertensives with prolonged duration of action. L-N-[3-Ethylsulfonyl-2-(1-naphthylmethyl)propionyl]norleucine in DMF at -15.degree. was treated with Et3N, N3P(O)(OPh)2, and (2RS,3RS,4S)-4-amino-5-cyclohexyl-1-morpholino-2,3-pentanediol (prepn. given) in DMF. The mixt. was stirred overnight to give (2RS,3RS,4S)-4-[L-N-[3-ethylsulfonyl-2-(1-naphthylmethyl)propionyl]norleucyl]amino-5-cyclohexyl-1-morpholino-2,3-pentanediol (II). I inhibited human plasma renin in vitro with IC50's of 9.7 .times. 10-9-1.7 .times. 10-10 M. II at 30 ng/kg orally in marmosets reduced blood pressure by .apprx.20 mm Hg after .apprx.30 min. II at 10 mg/mg orally in rats showed plasma levels of 267 ng/mL after 30 min, 183 ng/mL after 1 h, and 34 ng/mL after 4 h.

IT **123878-48-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, by aminocyclohexyl(methylpiperidino)pentanediol, in prepn. of renin inhibitor)

IT **123802-96-0 123803-45-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, by aminocyclohexylmorpholinopentanediol, in prepn. of renin inhibitor)

IT **123803-45-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with aminohydroxyoctanoic acid amide deriv., in prepn. of renin inhibitor)

IT **123803-71-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and oxidn. of, in prepn. of renin inhibitor)

IT **123801-80-9P 123801-81-0P 123801-82-1P**
123801-84-3P 123801-85-4P 123801-86-5P
123801-87-6P 123801-95-6P 123801-96-7P
123802-02-8P 123802-42-6P 123802-43-7P
123802-45-9P 123802-46-0P 123802-48-2P
123802-49-3P 123802-50-6P 123802-51-7P
123802-52-8P 123802-53-9P 123802-56-2P
123802-61-9P 123802-62-0P 123802-63-1P
123802-64-2P 123802-65-3P 123802-81-3P
123802-83-5P 123802-85-7P 123802-88-0P
123802-89-1P 123802-90-4P 123802-91-5P
123802-92-6P 123802-94-8P 123802-95-9P
123802-96-0P 123803-26-9P 123803-28-1P
123803-30-5P 123803-31-6P 123803-32-7P
123803-33-8P 123803-42-9P 123803-43-0P
123803-44-1P 123803-45-2P 123803-53-2P
123803-54-3P 123803-55-4P 123803-56-5P
123803-70-3P 123803-72-5P 123833-68-1P
123833-69-2P 123833-70-5P 123833-79-4P
123833-82-9P 123878-45-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for renin inhibitor)

L26 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1984:39596 HCAPLUS
DOCUMENT NUMBER: 100:39596
TITLE: Enkephalinase inhibitors
INVENTOR(S): Greenberg, Roland; Cushman, David W.; Vogt, Richard; Weisenborn, Frank L.; Antonaccio, Michael J.
PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc., USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4401677	A	19830830	US 1981-310192	19811009
US 4474795	A	19841002	US 1983-499107	19830527
US 4474799	A	19841002	US 1983-499119	19830527

PRIORITY APPLN. INFO.: US 1981-310192 19811009
OTHER SOURCE(S): CASREACT 100:39596
AB Enkephalinase [70025-49-9] is inhibited by HSCH2CHR1CONHCHR2CO2H [R1 = C1-4 alkyl, PhCH2, and PhCH2CH2, R2 = C1-4 alkyl, Ph(CH2)n, etc., n = 1-4], and these inhibitors are used for the alleviation of pain and administered in tablets, capsules, etc. Thus, 3-hydroxy-N-(D-3-mercapto-2-methyl-1-oxopropyl)-L-tyrosine (I) [79617-70-2] was prepd. by the acylation of 3,4-dihydroxy-L-phenylalanine [59-92-7] with D-3-acetylthio-2-methylpropanoyl chloride [69570-39-4] in the presence of NaOH at 0.degree. at pH 9.0 and subsequent hydrolysis of the resulting N-(D-3-acetylthio-2-methyl-1-oxopropyl)-3-hydroxy-L-tyrosine [88336-15-6] with conc. NH4OH. Tablets were prepd. each contg. 100 mg I.
IT **80970-02-1P 88320-92-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrolysis of)
IT **88320-89-2P**
RL: PREP (Preparation)
(prepn. of, as enkephalinase inhibitor)

L26 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1983:558866 HCAPLUS
DOCUMENT NUMBER: 99:158866
TITLE: Amino acid derivatives and their therapeutic use
INVENTOR(S): Roques, Bernard; Schwart, Jean Charles; Lecomte, Jeanne Marie
PATENT ASSIGNEE(S): Fr.
SOURCE: Eur. Pat. Appl., 105 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 82088	A1	19830622	EP 1982-402314	19821216
EP 82088	B1	19860402		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
FR 2518088	A1	19830617	FR 1981-23488	19811216
FR 2518088	B1	19871127		
JP 58150547	A2	19830907	JP 1982-221060	19821216
JP 03046463	B4	19910716		
AT 18902	E	19860415	AT 1982-402314	19821216
US 4618708	A	19861021	US 1985-715764	19850325
US 4738803	A	19880419	US 1986-900814	19860822

PRIORITY APPLN. INFO.: FR 1981-23488 19811216
US 1982-449687 19821214
EP 1982-402314 19821216
US 1985-715764 19850325
OTHER SOURCE(S): CASREACT 99:158866
AB R-X-Y-Z-CHR1COR2 [R = phosphono, sulfo, amino, carbamoyl, alkyl; X = CH(CH2)nR3 (n = 0-2; R3 = H, (un)substituted alkyl, Ph, naphthyl, cyclohexyl, thienyl, etc.), C:CHR3; Y = CO, NH, CH2CO; Z = CO, NR4 (R4 = alkyl, R1R4 = a ring); R1 = H or (un)substituted alkyl or Ph; R2 = OH or

(un)substituted alkyl, phenoxy, amino, etc.] were prepd. (101 compds. claimed). Thus, reaction of PhCH2CHBrCO2H with PhCH2ONH2, followed by formylation and coupling with glycine benzyl ester tosylate gave PhCH2ON(CHO)CH(CH2Ph)CO-Gly-OCH2Ph. The products are useful as enkephalinase inhibitors, analgesics, antidepressants, antidiuretics, and hypotensives. Thus, HON(CHO)CH2CH(CH2Ph)CO-Gly-NHCH2C6H4F-p was an effective analgesic, countering the effects of phenylbenzoquinone at 1 mg/kg i.v.

IT **87429-02-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and methylamination of)

IT **87429-00-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and sapon. of)

IT **76932-18-8P 87429-01-4P 87438-79-7P 87454-28-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT **87428-99-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn., sapon., and sulfoxylation of)

L26 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1981:157270 HCAPLUS
DOCUMENT NUMBER: 94:157270
TITLE: Mercaptoacyl peptides, their use as ACE inhibitors and in high pressure treatment
INVENTOR(S): Ondetti, Miguel A.; Pluscec, Josip
PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc., USA
SOURCE: Ger. Offen., 33 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3012140	A1	19801023	DE 1980-3012140	19800328
AU 8056380	A1	19801009	AU 1980-56380	19800312
AU 537592	B2	19840705		
GB 2045771	A	19801105	GB 1980-8696	19800314
GB 2045771	B2	19830126		
ZA 8001527	A	19810325	ZA 1980-1527	19800314
NL 8001675	A	19801006	NL 1980-1675	19800321
FR 2453135	A1	19801031	FR 1980-6711	19800326
FR 2453135	B1	19830617		
NO 8000931	A	19801003	NO 1980-931	19800331
NO 150360	B	19840625		
NO 150360	C	19841003		
SE 8002512	A	19801003	SE 1980-2512	19800401
DK 8001404	A	19801003	DK 1980-1404	19800401
ES 490166	A1	19810401	ES 1980-490166	19800401
HU 181087	B	19830530	HU 1980-774	19800401
CH 645092	A	19840914	CH 1980-2571	19800401
BE 882601	A1	19801002	BE 1980-200091	19800402
JP 55133345	A2	19801017	JP 1980-44020	19800402
AT 8001794	A	19830615	AT 1980-1794	19800402
~~AT 373577~~	B	19840210		
US 4684660	A	19870804	US 1980-145516	19800501

PRIORITY APPLN. INFO.: US 1979-25701 19790402
AB Title peptides RS(CH2)nCHR1CO-X-X1-OH [R = H, alkanoyl, Bz, S(CH2)nCHR1CO-X-X1-OH; R1 = H, alkyl, phenylalkyl; n = 0, 1; X and X1 = .alpha.-amino acid or .alpha.-imino acid residue] and their alkyl esters and salts were prepd. as antihypertensives (no data) due to their ability to inhibit angiotensin-converting enzyme. Thus, BOC-Val-Pro-OH (BOC = Me3CO2C) was BOC-deblocked and then acylated with AcSCH2CO2NSu (NSu = succinimido) to give AcSCH2CO-Val-Pro-OH, which was deacetylated by aq. NH3/MeOH to give HSCH2CO-Val-Pro-OH.
IT **76932-18-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and addn. reaction of, with thioacetic acid)
IT **76932-19-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and peptide coupling of, with arginine)

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=> select hit rn l26 1-11
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DICTIONARY FILE UPDATES: 16 APR 2003 HIGHEST RN 503266-82-8

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L28 156 S L27 AND L5

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6          RN   135911-61-4  REGISTRY
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64 RN **135793-41-8** REGISTRY
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78 RN **135038-56-1** REGISTRY
79 RN **124818-15-1** REGISTRY
80 RN **124818-14-0** REGISTRY
81 RN **124818-07-1** REGISTRY
82 RN **124735-34-8** REGISTRY
83 RN **124735-06-4** REGISTRY
DR **76932-19-9, 151955-02-1**
84 RN **123878-48-8** REGISTRY
85 RN **123878-45-5** REGISTRY
86 RN **123833-82-9** REGISTRY
87 RN **123833-79-4** REGISTRY
88 RN **123833-70-5** REGISTRY
89 RN **123833-69-2** REGISTRY
90 RN **123833-68-1** REGISTRY
91 RN **123803-71-4** REGISTRY
92 RN **123803-70-3** REGISTRY
93 RN **123803-56-5** REGISTRY
94 RN **123803-55-4** REGISTRY
95 RN **123803-54-3** REGISTRY
96 RN **123803-53-2** REGISTRY
97 RN **123803-45-2** REGISTRY
98 RN **123803-44-1** REGISTRY
99 RN **123803-43-0** REGISTRY
100 RN **123803-42-9** REGISTRY
101 RN **123803-33-8** REGISTRY
102 RN **123803-32-7** REGISTRY
103 RN **123803-31-6** REGISTRY
104 RN **123803-30-5** REGISTRY
105 RN **123803-28-1** REGISTRY
106 RN **123803-26-9** REGISTRY
107 RN **123802-96-0** REGISTRY
108 RN **123802-95-9** REGISTRY
109 RN **123802-94-8** REGISTRY
110 RN **123802-92-6** REGISTRY
111 RN **123802-91-5** REGISTRY
112 RN **123802-90-4** REGISTRY
113 RN **123802-89-1** REGISTRY
114 RN **123802-88-0** REGISTRY
115 RN **123802-85-7** REGISTRY
116 RN **123802-83-5** REGISTRY
117 RN **123802-81-3** REGISTRY
118 RN **123802-65-3** REGISTRY
119 RN **123802-64-2** REGISTRY
120 RN **123802-63-1** REGISTRY
121 RN **123802-62-0** REGISTRY
122 RN **123802-61-9** REGISTRY
123 RN **123802-56-2** REGISTRY

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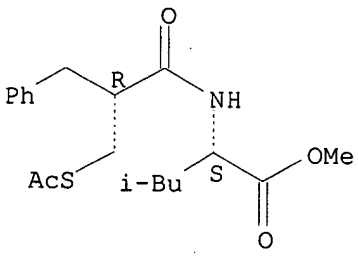
125        RN   123802-52-8  REGISTRY
126        RN   123802-51-7  REGISTRY
127        RN   123802-50-6  REGISTRY
128        RN   123802-49-3  REGISTRY
129        RN   123802-48-2  REGISTRY
130        RN   123802-46-0  REGISTRY
131        RN   123802-45-9  REGISTRY
132        RN   123802-43-7  REGISTRY
133        RN   123802-42-6  REGISTRY
134        RN   123802-02-8  REGISTRY
135        RN   123801-96-7  REGISTRY
136        RN   123801-95-6  REGISTRY
137        RN   123801-87-6  REGISTRY
138        RN   123801-86-5  REGISTRY
139        RN   123801-85-4  REGISTRY
140        RN   123801-84-3  REGISTRY
141        RN   123801-82-1  REGISTRY
142        RN   123801-81-0  REGISTRY
143        RN   123801-80-9  REGISTRY
144        RN    95909-00-5  REGISTRY
145        RN    95908-99-9  REGISTRY
146        RN    88728-45-4  REGISTRY
147        RN    88728-44-3  REGISTRY
148        RN    88320-89-2  REGISTRY
149        RN    87454-28-2  REGISTRY
150        RN    87438-79-7  REGISTRY
151        RN    81110-73-8  REGISTRY
DR   81110-60-3
152        RN    81110-07-8  REGISTRY
153        RN    81110-06-7  REGISTRY
154        RN    81110-05-6  REGISTRY
155        RN    80970-02-1  REGISTRY
156        RN    76721-89-6  REGISTRY
DR   107672-11-7, 225661-76-7


=>
=>
=> d ide can 128 1 2 4 6 7 12 17 18 41 75 79 82 84 86 91 107 135 144 145 146 148 149 150
151 155 156

L28  ANSWER 1 OF 156  REGISTRY  COPYRIGHT 2003 ACS
RN   195071-54-6  REGISTRY
CN   D-Leucine, N-[(2S)-2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]-, methyl
     ester, rel- (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
MF   C19 H27 N O4 S
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL

Relative stereochemistry.
```

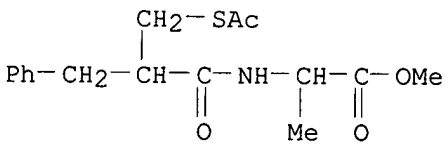


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:220985

L28 ANSWER 2 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **195070-33-8** REGISTRY
CN Alanine, N-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H21 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

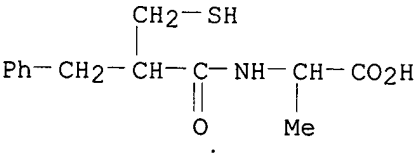


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:220985

L28 ANSWER 4 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **195069-64-8** REGISTRY
CN Alanine, N-[2-(mercaptomethyl)-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H17 N O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

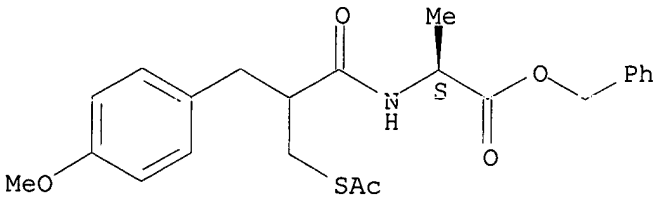
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:220985

L28 ANSWER 6 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **135911-61-4** REGISTRY
CN L-Alanine, N-[3-(acetylthio)-2-[(4-methoxyphenyl)methyl]-1-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH
MF C23 H27 N O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



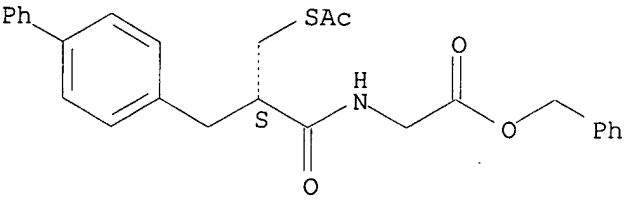
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L28 ANSWER 7 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **135910-60-0** REGISTRY
CN Glycine, N-[3-(acetylthio)-2-([1,1'-biphenyl]-4-ylmethyl)-1-oxopropyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H27 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

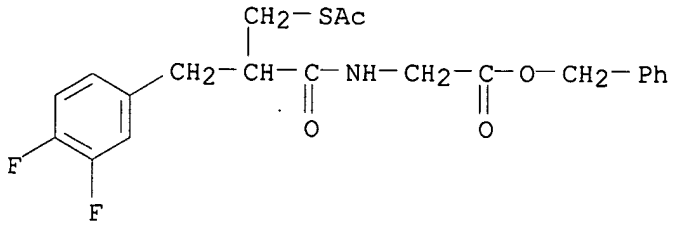


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L28 ANSWER 12 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **135824-81-6** REGISTRY
CN Glycine, N-[3-(acetylthio)-2-[(3,4-difluorophenyl)methyl]-1-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-[3-(acetylthio)-2-[(3,4-difluorophenyl)methyl]-1-oxopropyl]-, phenylmethyl ester, (.+-.)-
FS 3D CONCORD
MF C21 H21 F2 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



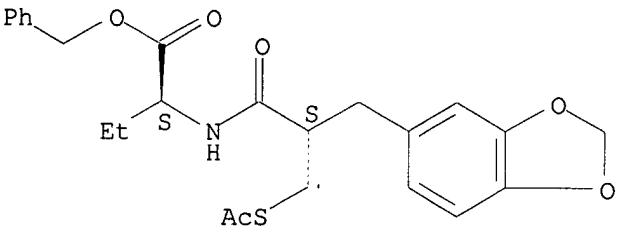
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L28 ANSWER 17 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **135798-83-3** REGISTRY
CN Butanoic acid, 2-[[3-(acetylthio)-2-(1,3-benzodioxol-5-ylmethyl)-1-oxopropyl]amino]-, phenylmethyl ester, [S-(R*,R*)]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H27 N O6 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



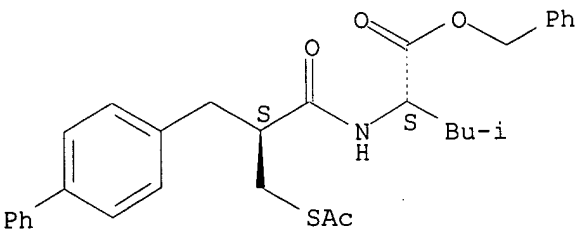
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L28 ANSWER 18 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **135794-45-5** REGISTRY
CN L-Leucine, N-[3-(acetylthio)-2-([1,1'-biphenyl]-4-ylmethyl)-1-oxopropyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H35 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



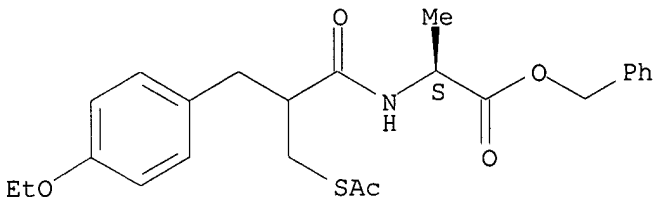
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L28 ANSWER 41 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **135793-85-0** REGISTRY
CN L-Alanine, N-[3-(acetylthio)-2-[(4-ethoxyphenyl)methyl]-1-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H29 N O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



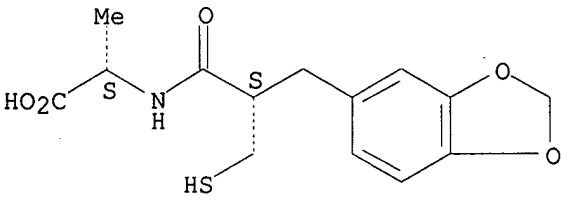
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L28 ANSWER 75 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **135038-59-4** REGISTRY
CN L-Alanine, N-[(2S)-3-(1,3-benzodioxol-5-yl)-2-(mercaptomethyl)-1-oxopropyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-Alanine, N-[3-(1,3-benzodioxol-5-yl)-2-(mercaptomethyl)-1-oxopropyl]-, (S)-
OTHER NAMES:
CN Aladotrilat
CN Alatrioprilat
CN Fasidotrilat
FS STEREOSEARCH
MF C14 H17 N O5 S
SR CA
LC STN Files: BIOSIS, CA, CAPLUS, DDFU, DRUGU, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:21218

REFERENCE 2: 129:23199

REFERENCE 3: 125:292619

REFERENCE 4: 124:135161

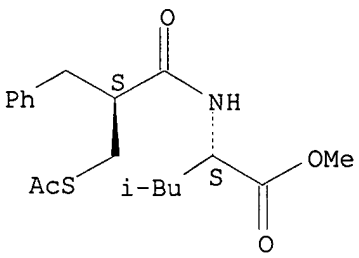
REFERENCE 5: 119:146591

REFERENCE 6: 115:136779

REFERENCE 7: 115:64338

L28 ANSWER 79 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **124818-15-1** REGISTRY
CN L-Leucine, N-[(2S)-2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-Leucine, N-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]-, methyl ester, (S)-
FS STEREOSEARCH
MF C19 H27 N O4 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

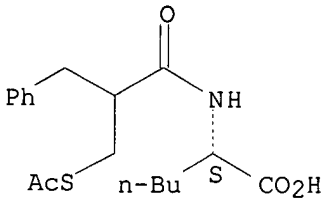
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:402027

REFERENCE 2: 112:56688

L28 ANSWER 82 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **124735-34-8** REGISTRY
CN L-Norleucine, N-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H25 N O4 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



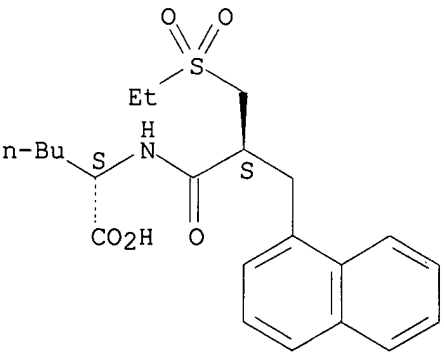
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 112:56688

L28 ANSWER 84 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **123878-48-8** REGISTRY
CN L-Norleucine, N-[2-[(ethylsulfonyl)methyl]-3-(1-naphthalenyl)-1-oxopropyl]-, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H29 N O5 S
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

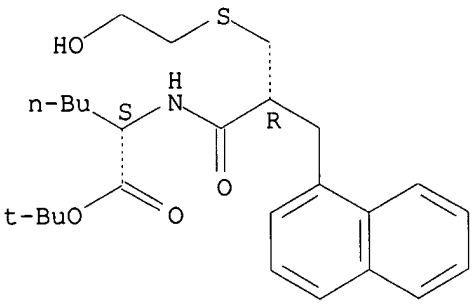
REFERENCE 1: 122:81916

REFERENCE 2: 113:153013

REFERENCE 3: 111:233664

L28 ANSWER 86 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **123833-82-9** REGISTRY
CN L-Norleucine, N-[2-[[(2-hydroxyethyl)thio]methyl]-3-(1-naphthalenyl)-1-oxopropyl]-, 1,1-dimethylethyl ester, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H37 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

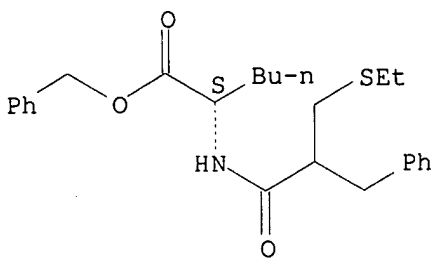
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:144034

REFERENCE 2: 111:233664

L28 ANSWER 91 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **123803-71-4** REGISTRY
CN L-Norleucine, N-[2-[(ethylthio)methyl]-1-oxo-3-phenylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H33 N O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



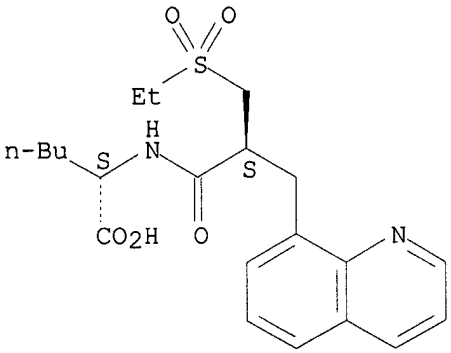
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 111:233664

L28 ANSWER 107 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **123802-96-0** REGISTRY
CN L-Norleucine, N-[2-[(ethylsulfonyl)methyl]-1-oxo-3-(8-quinolinyl)propyl]-, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H28 N2 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

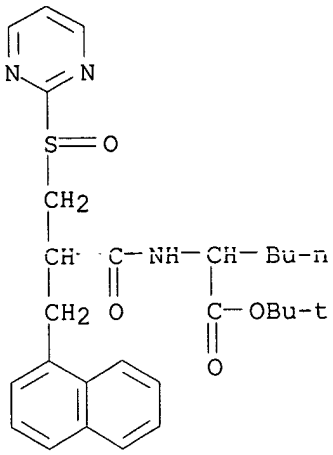


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 111:233664

L28 ANSWER 135 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **123801-96-7** REGISTRY
CN L-Norleucine, N-[2-(1-naphthalenylmethyl)-1-oxo-3-(2-pyrimidinylsulfinyl)propyl]-, 1,1-dimethylethyl ester, stereoisomer (9CI) (CA INDEX NAME)
MF C28 H35 N3 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



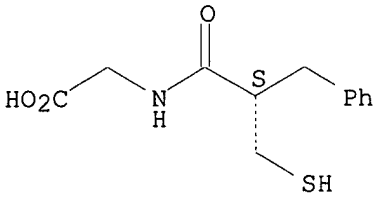
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 111:233664

L28 ANSWER 144 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **95909-00-5** REGISTRY
CN Glycine, N-[(2S)-2-(mercaptomethyl)-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-[2-(mercaptomethyl)-1-oxo-3-phenylpropyl]-, (S)-
OTHER NAMES:
CN (+)-Thiorphan
CN (S)-Thiorphan
CN LY 171436
FS STEREOSEARCH
MF C12 H15 N O3 S
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

20 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
20 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:298177

REFERENCE 2: 135:131669

REFERENCE 3: 131:68492

REFERENCE 4: 131:67635

REFERENCE 5: 127:220985

REFERENCE 6: 127:80998

REFERENCE 7: 126:113674

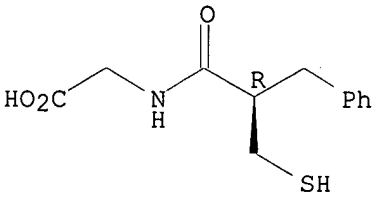
REFERENCE 8: 125:301516

REFERENCE 9: 125:292619

REFERENCE 10: 125:276489

L28 ANSWER 145 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **95908-99-9** REGISTRY
CN Glycine, N-[(2R)-2-(mercaptomethyl)-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-[2-(mercaptomethyl)-1-oxo-3-phenylpropyl]-, (R)-
OTHER NAMES:
CN (-)-Thiorphan
CN (R)-Thiorphan
CN LY 134464
FS STEREOSEARCH
MF C12 H15 N O3 S
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:298177

REFERENCE 2: 131:67635

REFERENCE 3: 127:220985

REFERENCE 4: 127:80998

REFERENCE 5: 125:276489

REFERENCE 6: 123:329281

REFERENCE 7: 109:50703

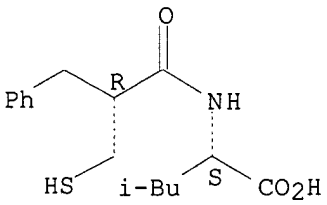
REFERENCE 8: 108:68755

REFERENCE 9: 108:33975

REFERENCE 10: 104:182239

L28 ANSWER 146 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **88728-45-4** REGISTRY
CN L-Leucine, N-[(2R)-2-(mercaptomethyl)-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-Leucine, N-[2-(mercaptomethyl)-1-oxo-3-phenylpropyl]-, (R)-
FS STEREOSEARCH
MF C16 H23 N O3 S
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

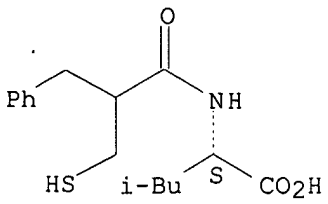
REFERENCE 1: 136:402027

REFERENCE 2: 112:56688

REFERENCE 3: 100:64059

L28 ANSWER 148 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **88320-89-2** REGISTRY
CN L-Leucine, N-[2-(mercaptomethyl)-1-oxo-3-phenylpropyl]-, monoammonium salt (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H23 N O3 S . H3 N
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
CRN (80970-04-3)

Absolute stereochemistry.

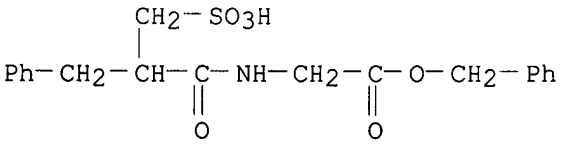


● NH_3

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 100:39596

L28 ANSWER 149 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **87454-28-2** REGISTRY
CN Glycine, N-[1-oxo-2-(phenylmethyl)-3-sulfopropyl]-, 1-(phenylmethyl) ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H21 N O6 S
CI COM
LC STN Files: CA, CAPLUS, USPATFULL

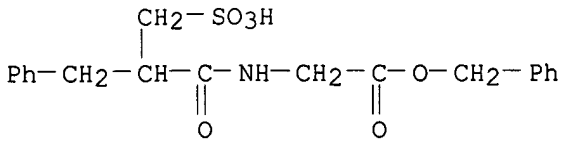


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 99:158866

L28 ANSWER 150 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **87438-79-7** REGISTRY
CN Glycine, N-[1-oxo-2-(phenylmethyl)-3-sulfopropyl]-, 1-(phenylmethyl) ester, monosodium salt (9CI) (CA INDEX NAME)
MF C19 H21 N O6 S . Na
LC STN Files: CA, CAPLUS, USPATFULL
CRN (87454-28-2)

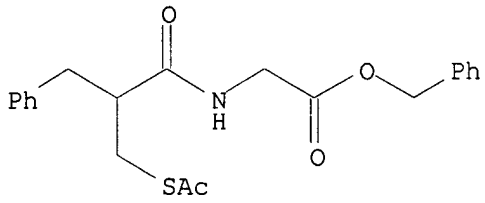


● Na

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 99:158866

L28 ANSWER 151 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **81110-73-8** REGISTRY
CN Glycine, N-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]-, phenylmethyl ester, (.+-.)-
OTHER NAMES:
CN Acetorphan
CN Racecadotril
CN Tiorfan
DR 81110-60-3
MF C21 H23 N O4 S
LC STN Files: ADISINSIGHT, ADISNEWS, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CIN, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK*, PHAR, PROMT, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

58 REFERENCES IN FILE CA (1962 TO DATE)
58 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:273031

REFERENCE 2: 136:355480

REFERENCE 3: 136:128808

REFERENCE 4: 136:58842

REFERENCE 5: 136:58841

REFERENCE 6: 135:262362

REFERENCE 7: 135:190150

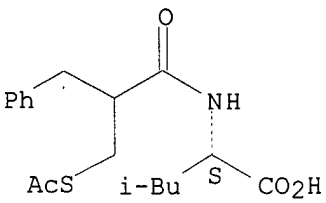
REFERENCE 8: 134:178396

REFERENCE 9: 134:125777

REFERENCE 10: 133:310142

L28 ANSWER 155 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **80970-02-1** REGISTRY
CN L-Leucine, N-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H25 N O4 S
CI COM
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



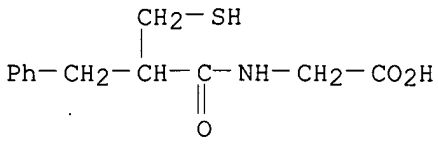
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 100:39596

REFERENCE 2: 96:123301

L28 ANSWER 156 OF 156 REGISTRY COPYRIGHT 2003 ACS
RN **76721-89-6** REGISTRY
CN Glycine, N-[2-(mercaptomethyl)-1-oxo-3-phenylpropyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N-[2-(mercaptomethyl)-1-oxo-3-phenylpropyl]-, (.+-.)-
OTHER NAMES:
CN (.+-.)-Thiorphan
CN Thiorphan
FS 3D CONCORD
DR 107672-11-7, 225661-76-7
MF C12 H15 N O3 S
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MSDS-OHS, PHAR, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

251 REFERENCES IN FILE CA (1962 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
251 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:233955

REFERENCE 2: 138:21218

REFERENCE 3: 138:11438

REFERENCE 4: 137:357975

REFERENCE 5: 137:273209

REFERENCE 6: 137:268388

REFERENCE 7: 137:185774

REFERENCE 8: 137:87775

REFERENCE 9: 137:31487

REFERENCE 10: 136:303673

=>
=>

=> d his l29

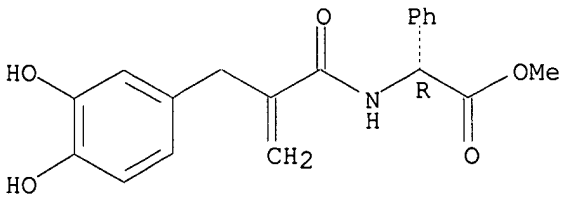
(FILE 'REGISTRY' ENTERED AT 16:53:06 ON 17 APR 2003)
L29 15 S L27 NOT L28

=>
=>

=> d ide can l29 1-15

L29 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **195071-25-1** REGISTRY
CN Benzeneacetic acid, .alpha.-[[2-[(3,4-dihydroxyphenyl)methyl]-1-oxo-2-propenyl]amino]-, methyl ester, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H19 N O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



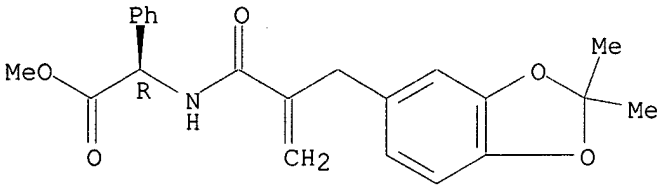
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:220985

L29 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **195071-24-0** REGISTRY
CN Benzeneacetic acid, .alpha.-[[2-[(2,2-dimethyl-1,3-benzodioxol-5-yl)methyl]-1-oxo-2-propenyl]amino]-, methyl ester, (R)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H23 N O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

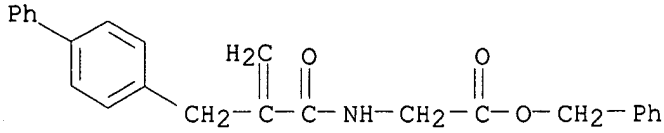


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:220985

L29 ANSWER 3 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **135798-73-1** REGISTRY
CN Glycine, N-[2-([1,1'-biphenyl]-4-ylmethyl)-1-oxo-2-propenyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H23 N O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



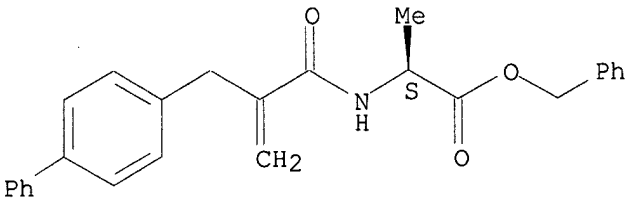
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L29 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **135798-71-9** REGISTRY
CN L-Alanine, N-[2-([1,1'-biphenyl]-4-ylmethyl)-1-oxo-2-propenyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H25 N O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

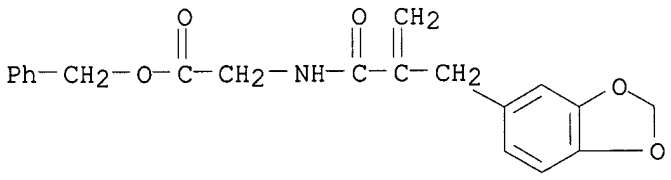


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L29 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **135798-68-4** REGISTRY
CN Glycine, N-[2-(1,3-benzodioxol-5-ylmethyl)-1-oxo-2-propenyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H19 N O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



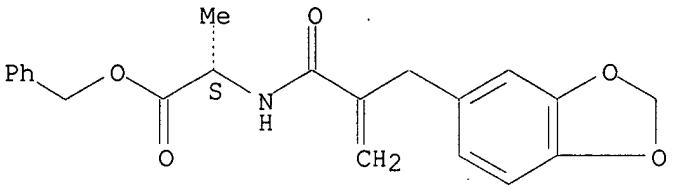
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 115:136779

L29 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **135798-66-2** REGISTRY
CN L-Alanine, N-[2-(1,3-benzodioxol-5-ylmethyl)-1-oxo-2-propenyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H21 N O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

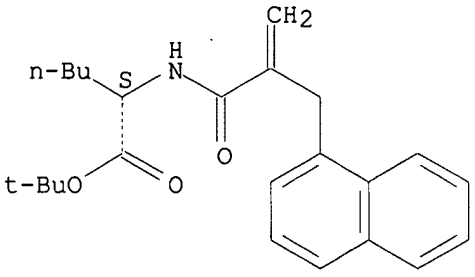
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:355480

REFERENCE 2: 115:136779

L29 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **123803-72-5** REGISTRY
CN L-Norleucine, N-[2-(1-naphthalenylmethyl)-1-oxo-2-propenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H31 N O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

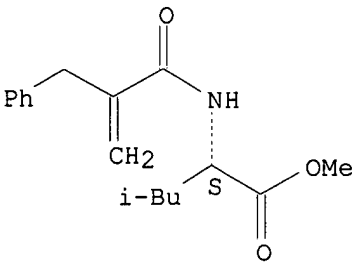
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 111:233664

L29 ANSWER 8 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **88320-92-7** REGISTRY

CN L-Leucine, N-(2-methylene-1-oxo-3-phenylpropyl)-, methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H23 N O3
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

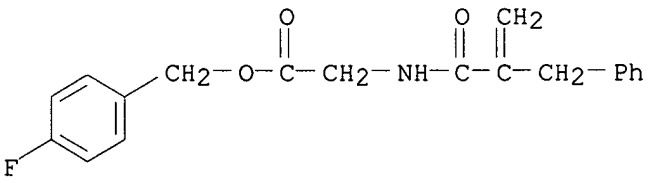


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 100:39596

L29 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **87429-02-5** REGISTRY
CN Glycine, N-[1-oxo-2-(phenylmethyl)-2-propenyl]-, (4-fluorophenyl)methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H18 F N O3
LC STN Files: CA, CAPLUS, USPATFULL

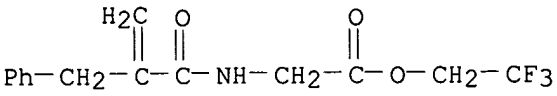


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 99:158866

L29 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **87429-01-4** REGISTRY
CN Glycine, N-[1-oxo-2-(phenylmethyl)-2-propenyl]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H14 F3 N O3
LC STN Files: CA, CAPLUS, USPATFULL

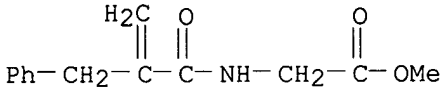


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 99:158866

L29 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **87429-00-3** REGISTRY
CN Glycine, N-[1-oxo-2-(phenylmethyl)-2-propenyl]-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H15 N O3
LC STN Files: CA, CAPLUS, USPATFULL

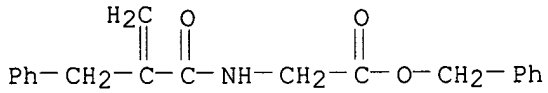


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 99:158866

L29 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **87428-99-7** REGISTRY
CN Glycine, N-[1-oxo-2-(phenylmethyl)-2-propenyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H19 N O3
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

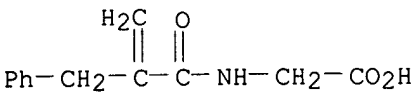
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:355480

REFERENCE 2: 99:158866

L29 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **76932-18-8** REGISTRY
CN Glycine, N-[1-oxo-2-(phenylmethyl)-2-propenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD
MF C12 H13 N O3
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

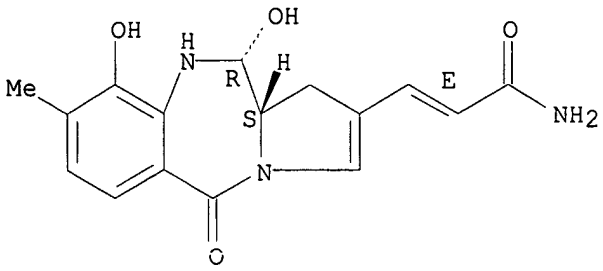
REFERENCE 1: 112:56688

REFERENCE 2: 99:158866

REFERENCE 3: 94:157270

L29 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **4803-27-4** REGISTRY
CN 2-Propenamide, 3-[(11R,11aS)-5,10,11,11a-tetrahydro-9,11-dihydroxy-8-methyl-5-oxo-1H-pyrrolo[2,1-c][1,4]benzodiazepin-2-yl]-, (2E)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Pyrrolo[2,1-c][1,4]benzodiazepine, 2-propenamide deriv.
CN 1H-Pyrrolo[2,1-c][1,4]benzodiazepine-2-acrylamide, 5,10,11,11a-tetrahydro-9,11-dihydroxy-8-methyl-5-oxo-, (E)- (8CI)
CN 2-Propenamide, 3-(5,10,11,11a-tetrahydro-9,11-dihydroxy-8-methyl-5-oxo-1H-pyrrolo[2,1-c][1,4]benzodiazepin-2-yl)-, [11R-[2(E),11.alpha.,11a.beta.]]-
CN Anthramycin (7CI)
OTHER NAMES:
CN 5,10,11,11a-Tetrahydro-9,11-dihydroxy-8-methyl-5-oxo-1H-pyrrolo[2,1-c][1,4]benzodiazepine-trans-2-acrylamide
CN Antramycin
CN NRRL 3143
CN NSC 106408
FS STEREOSEARCH
DR 11000-08-1, 29169-54-8
MF C16 H17 N3 O4
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CHEMLIST, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

152 REFERENCES IN FILE CA (1962 TO DATE)
28 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
152 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:35992

REFERENCE 2: 137:88442

REFERENCE 3: 137:73242

REFERENCE 4: 136:156464

REFERENCE 5: 136:19966

REFERENCE 6: 135:343300

REFERENCE 7: 135:298753

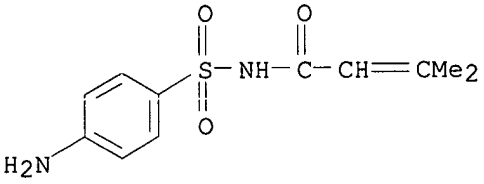
REFERENCE 8: 134:178396

REFERENCE 9: 133:310142

REFERENCE 10: 133:309791

L29 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2003 ACS
RN **115-68-4** REGISTRY
CN 2-Butenamide, N-[(4-aminophenyl)sulfonyl]-3-methyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Crotonamide, 3-methyl-N-sulfanilyl- (6CI, 7CI, 8CI)
OTHER NAMES:
CN Irgamid
CN Irgamide
CN N-Sulfanilyl-.beta.,.beta.-dimethylacrylamide
CN N-Sulfanilylseneciamide
CN N1-Senecioylsulfanilamide
CN Sulfadicramide
CN Sulfanildimethylacryloylamide
CN Sulfauridin
CN Sulfirgamid
CN Sulfirgamide
FS 3D CONCORD
MF C11 H14 N2 O3 S
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CHEMLIST, DDFU, DRUGU, EMBASE, IPA, MRCK*, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)

Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

51 REFERENCES IN FILE CA (1962 TO DATE)
51 REFERENCES IN FILE CAPLUS (1962 TO DATE)
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:299757

REFERENCE 2: 137:149790

REFERENCE 3: 134:178396

REFERENCE 4: 133:310142

REFERENCE 5: 133:309791

REFERENCE 6: 130:17153

REFERENCE 7: 129:99938

REFERENCE 8: 126:242963

REFERENCE 9: 126:79862

REFERENCE 10: 125:284938